

CLAIMS

1. Method of transmitting data over a wireless link, characterized in that it comprises the following steps:

- 5 - insertion of the data into packets according to a format corresponding to at least certain layers of a first protocol for data transmission over a wireless network;
- use of these packets to form a frame in accordance with a second protocol for data transmission over a wireless network, different from the first protocol, and
- 10 - transmission over the wireless network according to the second protocol.

2. Method according to Claim 1, characterized in that the initial

15 data are formatted according to a protocol of a cabled bus.

3. Method according to Claim 2 where the cabled bus is an IEEE 1394 bus, the first protocol for data transmission over a wireless network is HiperLAN/2 and the second protocol for data transmission over a

20 wireless network is a protocol from the 802.11 family.

4. Method according to any one of Claims 2 or 3, in which the packets used are generated by an IEEE 1394 SCS module.

25 5. Method according to any one of Claims 1 to 4 where the frames, generated on the basis of the packets according to an intermediate format defined by the said layer or layers of the first protocol for data transmission over a wireless network, the said frames being in accordance with the second protocol for data transmission over a wireless network, are

30 distinguished from the other frames by a specific identifier in the frame.

6. Method according to any one of Claims 1 to 5 where the frames, generated on the basis of the packets according to an intermediate format defined by the said layer or layers of the first protocol for data transmission over a wireless network and in accordance with the second
5 protocol for data transmission over a wireless network, are distinguished from the other frames through the use of specific MAC addresses identifying their origin and their destination.

7. Data transmission apparatus (1), containing means making it
10 possible to receive frames according to the protocol and formatted according to a cabled bus (8), means of connection to a wireless network (2, 3, 4, 5), a module for processing the frames formatted according to a cabled bus so as to insert the data received on the cabled bus into a frame according to a
15 format defined by a first protocol for data transmission over a wireless network (7), characterized in that the apparatus contains means for generating transmission frames in accordance with a second protocol for data transmission over a wireless network on the basis of the said packets (4 or 13) in which are inserted data received from the cabled bus, the said
20 packets being formatted according to at least certain layers of the first protocol.

8. Apparatus according to Claim 6, where the cabled bus is an IEEE 1394 bus, the first protocol for data transmission over a wireless network is HiperLAN/2 and the second protocol for data transmission over a
25 wireless network is a protocol from the 802.11 family.

9. Apparatus according to one of Claims 7 or 8, characterized in that it comprises, as far as the second protocol is concerned, only the layers necessary for the encapsulation and the transmission of packets generated
30 with the aid of the said layers of the first protocol.